## SIEMENS

## Data sheet

## 3RW5234-6TC15



SIRIUS soft starter 200-600 V 113 A, 110-250 V AC Screw terminals Thermistor input

of circuit breaker usable at 400 V at inside-delta     circuit	00 00 00 00 00
product designationSoft starterproduct type designation3RW52manufacturer's article number3RW5980-0HS• of standard HMI module usable3RW5980-0HS• of high feature HMI module usable3RW5980-0HS• of communication module PROFINET standard usable3RW5980-0CS• of communication module PROFIBUS usable3RW5980-0CS• of communication module Modbus TCP usable3RW5980-0CF• of communication module Modbus RTU usable3RW5980-0CF• of communication module Ethernet/IP3RW5980-0CF• of circuit breaker usable at 400 V3VA2216-7MN• of circuit breaker usable at 400 V at inside-delta circuit3VA2220-7MN	00 00 00 00 00
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manufacturer's article number       3RW5980-0HS         • of standard HMI module usable       3RW5980-0HS         • of high feature HMI module usable       3RW5980-0HS         • of communication module PROFINET standard usable       3RW5980-0CS         • of communication module PROFIBUS usable       3RW5980-0CS         • of communication module PROFIBUS usable       3RW5980-0CS         • of communication module Modbus TCP usable       3RW5980-0CF         • of communication module Modbus RTU usable       3RW5980-0CF         • of communication module Ethernet/IP       3RW5980-0CF         • of circuit breaker usable at 400 V       3VA2216-7MN         • of circuit breaker usable at 400 V at inside-delta circuit       3VA2220-7MN	00 00 00 00
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<ul> <li>of communication module PROFINET standard usable</li> <li>of communication module PROFIBUS usable</li> <li>of communication module PROFIBUS usable</li> <li>of communication module Modbus TCP usable</li> <li>of communication module Modbus RTU usable</li> <li>of communication module Ethernet/IP</li> <li>of circuit breaker usable at 400 V</li> <li>of circuit breaker usable at 400 V at inside-delta 3VA2220-7MN circuit</li> </ul>	<u>00</u> 00 00
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<ul> <li>of communication module Modbus TCP usable</li> <li>of communication module Modbus RTU usable</li> <li>of communication module Ethernet/IP</li> <li>of circuit breaker usable at 400 V</li> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	00
<ul> <li>of communication module Modbus RTU usable</li> <li>of communication module Ethernet/IP</li> <li>of circuit breaker usable at 400 V</li> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	——————————————————————————————————————
of communication module Ethernet/IP     of circuit breaker usable at 400 V     of circuit breaker usable at 400 V at inside-delta     circuit	00
of circuit breaker usable at 400 V     of circuit breaker usable at 400 V at inside-delta     circuit	
of circuit breaker usable at 400 V at inside-delta <u>3VA2220-7MN</u>	<u>00</u>
circuit	32-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10
	32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
of the gG fuse usable up to 690 V <u>3NA3244-6; Ty</u>	pe of coordination 1. Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to <u>3NA3244-6; Ty</u> 500 V	pe of coordination 1, Iq = 65 kA
• of full range R fuse link for semiconductor protection <u>3NE1225-0; Ty</u> usable up to 690 V	pe of coordination 2. Iq = 65 kA
• of back-up R fuse link for semiconductor protection usable up to 690 V	ype of coordination 2, Iq = 65 kA
General technical data	
starting voltage [%] 30 100 %	
stopping voltage [%] 50 %; non-adju	stable
start-up ramp time of soft starter 0 20 s	
current limiting value [%] adjustable 130 700 %	
certificate of suitability	
CE marking Yes	
UL approval Yes	
CSA approval     Yes	
product component	
HMI-High Feature     No	
• is supported HMI-Standard Yes	
is supported HMI-High Feature Yes	
product feature integrated bypass contact system Yes	
number of controlled phases 3	
trip class CLASS 10A (d	
buffering time in the event of power failure	efault) / 10E / 20E; acc. to IEC 60947-4-2
• for main current circuit 100 ms	efault) / 10E / 20E; acc. to IEC 60947-4-2

for control circuit	100 ms
insulation voltage rated value	600 V
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV
blocking voltage of the thyristor maximum	1 800 V
service factor	1
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	222.17
between main and auxiliary circuit	600 V
shock resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
vibration resistance	15 mm to 6 Hz; 2g to 500 Hz
utilization category according to IEC 60947-4-2	AC 53a
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
product function	
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes
Soft Torque	Yes
<ul> <li>adjustable current limitation</li> </ul>	Yes
<ul> <li>pump ramp down</li> </ul>	Yes
<ul> <li>intrinsic device protection</li> </ul>	Yes
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection)
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick
inside-delta circuit	Yes
auto-RESET	Yes
manual RESET	Yes
remote reset	Yes; By turning off the control supply voltage
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories
error logbook	Yes; Only in conjunction with special accessories
<ul> <li>via software parameterizable</li> </ul>	No
<ul> <li>via software configurable</li> </ul>	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
<ul> <li>analog output</li> </ul>	No
Power Electronics	
operational current	
at 40 °C rated value	113 A
at 50 °C rated value	101 A
at 60 °C rated value	89 A
operational current at inside-delta circuit	
at 40 °C rated value	196 A
• at 50 °C rated value	175 A
• at 60 °C rated value	154 A
operating voltage	
rated value	200 600 V
at inside-delta circuit rated value	200 600 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
• at 230 V at 40 °C rated value	30 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	55 kW
• at 400 V at 40 °C rated value	55 kW

	<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	110 kW
Operating frequency 1 rated value         60 Hz           Operating frequency 2 rated value         60 Hz           Operating frequency 2 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           relative negative tolerance of the operating frequency         10 %           relative negative tolerance of the operating frequency         10 %           if totary coding switch on switch position 1         53 A           if totary coding switch on switch position 3         61 A           if totary coding switch on switch position 5         59 A           if totary coding switch on switch position 6         83 A           if totary coding switch on switch position 6         81 A           if totary coding switch on switch position 1         59 A           if totary coding switch on switch position 1         93 A           if totary coding switch on switch position 1         10 A           if totary coding switch on switch position 16         113 A           if totary coding switch on switch position 16         113 A           if totary coding switch on switch position 16         113 A           if totary coding switch on switch position 16         113 A           if totary coding switch on switch position 16         113 A           if totary coding switch on switch position 16		
operating frequency 2 rated value         60 Hz           relative negative tolerance of the operating frequency         10 %           adjustable motor current         53 A           = it rotary coding witch on switch position 1         53 A           = it rotary coding witch on switch position 2         57 A           = it rotary coding witch on switch position 5         60 A           = it rotary coding witch on switch position 5         60 A           = it rotary coding witch on switch position 5         60 A           = it rotary coding witch on switch position 6         73 A           = it rotary coding witch on switch position 7         73 A           = it rotary coding witch on switch position 10         80 A           = it rotary coding witch on switch position 10         80 A           = it rotary coding witch on switch position 10         80 A           = it rotary coding witch on switch position 11         105 A           = it rotary coding witch on switch position 12         97 A           = it rotary coding witch on switch position 13         101 A           = it rotary coding witch on switch position 14         105 A           = it rotary coding witch on switch position 15         100 A           = it rotary coding witch on switch position 16         105 A           = it rotary coding witch on switch position 16		
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relative positive tolerance of the operating frequency         10 %           adjustable motor current         53 A           • it rotary coding switch on switch position 1         53 A           • it rotary coding switch on switch position 2         57 A           • it rotary coding switch on switch position 3         61 A           • it rotary coding switch on switch position 5         69 A           • it rotary coding switch on switch position 6         73 A           • it rotary coding switch on switch position 7         77 A           • it rotary coding switch on switch position 7         77 A           • it rotary coding switch on switch position 10         89 A           • it rotary coding switch on switch position 10         89 A           • it rotary coding switch on switch position 10         89 A           • it rotary coding switch on switch position 11         97 A           • it rotary coding switch on switch position 15         119 A           • it rotary coding switch on switch position 16         119 A           • it rotary coding switch on switch position 16         119 A           • it rotary coding switch on switch position 16         119 A           • it rotary coding switch on switch position 16         119 A           • it rotary coding switch on switch position 16         119 A           • it rotary coding switch		
adjustable motor current       53 A         • at rotary coding switch on switch position 2       57 A         • at rotary coding switch on switch position 3       61 A         • at rotary coding switch on switch position 4       65 A         • at rotary coding switch on switch position 5       69 A         • at rotary coding switch on switch position 6       73 A         • at rotary coding switch on switch position 7       77 A         • at rotary coding switch on switch position 9       85 A         • at rotary coding switch on switch position 9       85 A         • at rotary coding switch on switch position 10       99 A         • at rotary coding switch on switch position 11       93 A         • at rotary coding switch on switch position 12       97 A         • at rotary coding switch on switch position 14       105 A         • at rotary coding switch on switch position 14       105 A         • at rotary coding switch on switch position 15       113 A         • at rotary coding switch on switch position 15       113 A         • at rotary coding switch on switch position 15       116 A         • at rotary coding switch on switch position 15       116 A         • for inside-defla circuit at rotary coding switch on switch position 13       116 A         • for inside-defla circuit at rotary coding switch on switch position 13 <th></th> <th></th>		
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	<ul> <li>at rotary coding switch on switch position 3</li> </ul>	61 A
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	<ul> <li>at rotary coding switch on switch position 5</li> </ul>	69 A
transfer coding switch on switch position 8     if tratery coding switch on switch position 10     if tratery coding switch on switch position 12     if tratery coding switch on switch position 13     if tratery coding switch on switch position 13     if tratery coding switch on switch position 14     if tratery coding switch on switch position 15     if tratery coding switch on switch position 16     if tratery coding switch on switch position 17     if or inside-delta circuit at rotary coding switch on     switch position 2     if or inside-delta circuit at rotary coding switch on     switch position 7     if or inside-delta circuit at rotary coding switch on     switch position 7     if or inside-delta circuit at rotary coding switch on     switch position 7     if or inside-delta circuit at rotary coding switch on     switch position 7     if or inside-delta circuit at rotary coding switch on     switch position 7     if or inside-delta circuit at rotary coding switch on     switch position 1     if or inside-delta circuit at rotary coding switch on     switch position 13     if or inside-delta circuit at rotary coding switch on     switch position 14     if or inside-delta circuit at rotary coding switch on     switch position 15     if or inside-delta circuit at rotary coding switch on     switch position 14     if or inside-delta circuit at rotary coding switch on     switch position 15     if ninde-delta circuit at rotary coding switch on     switc	<ul> <li>at rotary coding switch on switch position 6</li> </ul>	73 A
• at rotary coding switch on switch position 9         85 Å           • at rotary coding switch on switch position 10         89 Å           • at rotary coding switch on switch position 12         97 Å           • at rotary coding switch on switch position 12         97 Å           • at rotary coding switch on switch position 13         101 Å           • at rotary coding switch on switch position 14         105 Å           • at rotary coding switch on switch position 15         109 Å           • at rotary coding switch on switch position 16         113 Å           • at rotary coding switch on switch position 16         113 Å           • at rotary coding switch on switch position 16         113 Å           • of riside-detta circuit at rotary coding switch on switch position 2         98.7 Å           • for riside-detta circuit at rotary coding switch on switch position 3         106 Å           • for riside-detta circuit at rotary coding switch on switch position 5         120 Å           • for riside-detta circuit at rotary coding switch on switch position 6         120 Å           • for riside-detta circuit at rotary coding switch on switch position 10         120 Å           • for riside-detta circuit at rotary coding switch on switch position 10         133 Å           • for riside-detta circuit at rotary coding switch on switch position 12         147 Å           • for riside-detta circuit at rotary c	<ul> <li>at rotary coding switch on switch position 7</li> </ul>	77 A
• at rotary coding switch on switch position 1089 A• at rotary coding switch on switch position 1193 A• at rotary coding switch on switch position 1297 A• at rotary coding switch on switch position 13101 A• at rotary coding switch on switch position 14105 A• at rotary coding switch on switch position 15139 A• at rotary coding switch on switch position 16113 A• at rotary coding switch on switch position 16133 A• for inside-delta circuit at rotary coding switch on switch position 1698.7 A• for inside-delta circuit at rotary coding switch on switch position 198.7 A• for inside-delta circuit at rotary coding switch on switch position 1106 A• for inside-delta circuit at rotary coding switch on switch position 3106 A• for inside-delta circuit at rotary coding switch on switch position 5113 A• for inside-delta circuit at rotary coding switch on switch position 6120 A• for inside-delta circuit at rotary coding switch on switch position 6133 A• for inside-delta circuit at rotary coding switch on switch position 1140 A• for inside-delta circuit at rotary coding switch on switch position 13141 A• for inside-delta circuit at rotary coding switch on switch position 11154 A• for inside-delta circuit at rotary coding switch on switch position 13154 A• for inside-delta circuit at rotary coding switch on switch position 13161 A• for inside-delta circuit at rotary coding switch on switch position 13154 A• for inside-delta circuit at rotary coding switch on	<ul> <li>at rotary coding switch on switch position 8</li> </ul>	81 A
• at rotary coding switch on switch position 1293 A• at rotary coding switch on switch position 1297 A• at rotary coding switch on switch position 13101 A• at rotary coding switch on switch position 15109 A• at rotary coding switch on switch position 16113 A• at rotary coding switch on switch position 16130 A• at rotary coding switch on switch position 16130 A• at rotary coding switch on switch position 16130 A• for inside-delta circuit at rotary coding switch on switch position 198 A• for inside-delta circuit at rotary coding switch on switch position 298 A• for inside-delta circuit at rotary coding switch on switch position 398 A• for inside-delta circuit at rotary coding switch on switch position 3106 A• for inside-delta circuit at rotary coding switch on switch position 4120 A• for inside-delta circuit at rotary coding switch on switch position 5120 A• for inside-delta circuit at rotary coding switch on switch position 6120 A• for inside-delta circuit at rotary coding switch on switch position 7140 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 13164 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12164 A• for inside-delta circuit at rotary coding switch on switc	<ul> <li>at rotary coding switch on switch position 9</li> </ul>	85 A
At rotary coding switch on switch position 12     at rotary coding switch on switch position 13     101 A     at rotary coding switch on switch position 14     105 A     at rotary coding switch on switch position 15     109 A     at rotary coding switch on switch position 15     109 A     at rotary coding switch on switch position 15     107 A      at rotary coding switch on switch position 15     108 A     at rotary coding switch on switch position 16     intnimum     adjustable motor current     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 2     of rinside-delta circuit at rotary coding switch on     switch position 4     of rinside-delta circuit at rotary coding switch on     switch position 4     of rinside-delta circuit at rotary coding switch on     switch position 4     of rinside-delta circuit at rotary coding switch on     switch position 4     of rinside-delta circuit at rotary coding switch on     switch position 4     of rinside-delta circuit at rotary coding switch on     switch position 7     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on     switch position 1     of rinside-delta circuit at rotary coding switch on	<ul> <li>at rotary coding switch on switch position 10</li> </ul>	89 A
e at rotary coding switch on switch position 13     e at rotary coding switch on switch position 14     ist rotary coding switch on switch position 15     e at rotary coding switch on switch position 16     ist rotary coding switch on switch position 1     ist rotary coding switch on switch position 2     ist rotary coding switch on switch position 3     ist rotary coding switch on switch position 4     ist rotary coding switch on switch position 5     ist rotary coding switch on switch position 7     ist rotary coding switch on 120     ist rotary coding switch on switch position 10     ist rotary coding switch on 125 A     ist rotary coding switch on switch position 13     ist rotary coding switch on switch position 14     ist rotary coding switch on switch position 15     ist rotary coding switch on switch position 15		
• at rotary coding switch on switch position 14       105 A         • at rotary coding switch on switch position 15       109 A         • at rotary coding switch on switch position 16       113 A         • minimum       53 A         adjustable motor current       91.8 A         • for inside-delta circuit at rotary coding switch on switch position 1       98.7 A         • for inside-delta circuit at rotary coding switch on switch position 2       106 A         • for inside-delta circuit at rotary coding switch on switch position 4       120 A         • for inside-delta circuit at rotary coding switch on switch position 5       120 A         • for inside-delta circuit at rotary coding switch on switch position 6       120 A         • for inside-delta circuit at rotary coding switch on switch position 7       126 A         • for inside-delta circuit at rotary coding switch on switch position 7       140 A         • for inside-delta circuit at rotary coding switch on switch position 7       140 A         • for inside-delta circuit at rotary coding switch on switch position 10       147 A         • for inside-delta circuit at rotary coding switch on switch position 12       154 A         • for inside-delta circuit at rotary coding switch on switch position 13       168 A         • for inside-delta circuit at rotary coding switch on switch position 13       154 A         • for inside-delta circuit at ro		
<ul> <li>at rotary coding switch on switch position 15</li> <li>it rotary coding switch on switch position 16</li> <li>ital A</li> <li>adjustable motor current</li> <li>of rinside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> <li>of rinside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>of rinside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>of rinside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circu</li></ul>		
• at rotary coding switch on switch position 16       113 A         • minimum       53 A         adjustable motor current       • for inside-detta circuit at rotary coding switch on switch position 1       91.8 A         • for inside-detta circuit at rotary coding switch on switch position 2       98.7 A         • for inside-detta circuit at rotary coding switch on switch position 5       98.7 A         • for inside-detta circuit at rotary coding switch on switch position 5       106 A         • for inside-detta circuit at rotary coding switch on switch position 5       113 A         • for inside-detta circuit at rotary coding switch on switch position 6       120 A         • for inside-detta circuit at rotary coding switch on switch position 7       120 A         • for inside-detta circuit at rotary coding switch on switch position 7       133 A         • for inside-detta circuit at rotary coding switch on switch position 7       140 A         • for inside-detta circuit at rotary coding switch on switch position 10       147 A         • for inside-detta circuit at rotary coding switch on switch position 11       154 A         • for inside-detta circuit at rotary coding switch on switch position 12       161 A         • for inside-detta circuit at rotary coding switch on switch position 13       182 A         • for inside-detta circuit at rotary coding switch on switch position 13       182 A         • for inside-detta cir		
• minimum53 Aadjustable motor current • for inside-delta circuit at rotary coding switch on switch position 191.8 A• for inside-delta circuit at rotary coding switch on switch position 298.7 A• for inside-delta circuit at rotary coding switch on switch position 398.7 A• for inside-delta circuit at rotary coding switch on switch position 3106 A• for inside-delta circuit at rotary coding switch on switch position 5106 A• for inside-delta circuit at rotary coding switch on 		
adjustable motor current <ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at r</li></ul>		
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at</li></ul>		53 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> <li>for inside-delta circuit</li></ul>	• for inside-delta circuit at rotary coding switch on	91.8 A
switch position 3113 A• for inside-delta circuit at rotary coding switch on switch position 4113 A• for inside-delta circuit at rotary coding switch on switch position 5120 A• for inside-delta circuit at rotary coding switch on switch position 6126 A• for inside-delta circuit at rotary coding switch on switch position 7133 A• for inside-delta circuit at rotary coding switch on switch position 7140 A• for inside-delta circuit at rotary coding switch on switch position 8147 A• for inside-delta circuit at rotary coding switch on switch position 9154 A• for inside-delta circuit at rotary coding switch on switch position 10161 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding	<ul> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	98.7 A
switch position 4120 A• for inside-delta circuit at rotary coding switch on switch position 5120 A• for inside-delta circuit at rotary coding switch on switch position 6126 A• for inside-delta circuit at rotary coding switch on switch position 7133 A• for inside-delta circuit at rotary coding switch on switch position 8140 A• for inside-delta circuit at rotary coding switch on switch position 7147 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16186 A• for inside-delta circuit at rotary codin		106 A
switch position 5126 A• for inside-delta circuit at rotary coding switch on switch position 7133 A• for inside-delta circuit at rotary coding switch on switch position 7140 A• for inside-delta circuit at rotary coding switch on switch position 8140 A• for inside-delta circuit at rotary coding switch on switch position 9147 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 11168 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16181 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16118 A• for inside-delta circuit at rotary coding switch on switch position 16166 A• for inside-delta circuit at rotary coding switch on switch position 16181 A• for inside-delta circuit at rotary coding switch on switch position 16166 A• for inside-delta circuit at rotary codi		113 A
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switch position 71• for inside-delta circuit at rotary coding switch on switch position 8140 A• for inside-delta circuit at rotary coding switch on switch position 9147 A• for inside-delta circuit at rotary coding switch on switch position 10154 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• for inside-delta circuit at rotary coding		
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switch position 10161 A• for inside-delta circuit at rotary coding switch on switch position 11161 A• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit minimum91.8 A• at 40 °C after startup • at 50 °C after startup46 W• at 50 °C after startup42 W	switch position 9	
switch position 11Instruction of the current at AC• for inside-delta circuit at rotary coding switch on switch position 12168 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit minimum91.8 K• at 40 °C after startup • at 40 °C after startup46 W• at 50 °C after startup • at 50 °C after startup42 W	switch position 10	
switch position 12175 A• for inside-delta circuit at rotary coding switch on switch position 13175 A• for inside-delta circuit at rotary coding switch on switch position 14182 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit minimum91.8 A• at inside-delta value of the current at AC • at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 11	
switch position 13182 A• for inside-delta circuit at rotary coding switch on switch position 14189 A• for inside-delta circuit at rotary coding switch on switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 1691.8 A• at inside-delta circuit minimum91.8 A• for inside-delta value of the current at AC • at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 12	
switch position 14I89 A• for inside-delta circuit at rotary coding switch on switch position 15189 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit minimum91.8 Aminimum load [%]15 %; Relative to smallest settable le• at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 13	
switch position 15196 A• for inside-delta circuit at rotary coding switch on switch position 16196 A• at inside-delta circuit minimum91.8 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC • at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 14	
switch position 1691.8 Aminimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC46 W• at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 15	
minimum load [%]15 %; Relative to smallest settable lepower loss [W] for rated value of the current at AC46 W• at 40 °C after startup46 W• at 50 °C after startup42 W	switch position 16	
power loss [W] for rated value of the current at AC• at 40 °C after startup46 W• at 50 °C after startup42 W		
<ul> <li>at 40 °C after startup</li> <li>at 50 °C after startup</li> <li>46 W</li> <li>42 W</li> </ul>		
• at 50 °C after startup 42 W		46 W
• at 60 °C after startup 39 W		42 W
	• at 60 °C after startup	39 W

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power loss [W] at AC at current limitation 350 %	
<ul> <li>at 40 °C during startup</li> </ul>	1 512 W
● at 50 °C during startup	1 291 W
● at 60 °C during startup	1 086 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply	10 %
voltage frequency	30 mA
control supply current in standby mode rated value holding current in bypass operation rated value	30 mA 75 mA
locked-rotor current at close of bypass contact	2.5 A
maximum	2.0 /
inrush current peak at application of control supply voltage maximum	12.2 A
duration of inrush current peak at application of control supply voltage	2.2 ms
design of the overvoltage protection	Varistor
design of short-circuit protection for control circuit	4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply
Inputs/ Outputs	
number of digital inputs	1
number of digital outputs	3
<ul> <li>not parameterizable</li> </ul>	2
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	0
switching capacity current of the relay outputs	
<ul> <li>at AC-15 at 250 V rated value</li> </ul>	3 A
• at DC-13 at 24 V rated value	1 A
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method	
lastening method	screw fixing
height	306 mm
	306 mm 185 mm
height width depth	306 mm
height         width         depth         required spacing with side-by-side mounting	306 mm 185 mm 203 mm
height         width         depth         required spacing with side-by-side mounting         • forwards	306 mm 185 mm 203 mm 10 mm
height width depth required spacing with side-by-side mounting • forwards • backwards	306 mm 185 mm 203 mm 10 mm 0 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg
height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for main current circuit	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection
height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg

wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (16 95 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (25 120 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
processing	
at AWG cables for control circuit solid	1x (20 12), 2x (20 14)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
tightening torque [lbf·in]	
for main contacts with screw-type terminals	89 124 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	7 10.3 lbf·in
terminals	
Ambient conditions	
installation altitude at height above sea level maximum	5 000 m; Derating as of 1000 m, see catalog
ambient temperature	
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or
	above
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C
environmental category	
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt
	mist), 3S2 (sand must not get into the devices), 3M6
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	200. 10 1E0 00047 4 2. 01033 A
communication module is supported	N
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
of circuit breaker	
<ul> <li>— usable for Standard Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
<ul> <li>— usable for High Faults at 460/480 V according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
<ul> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
<ul> <li>— usable for High Faults at 460/480 V at inside- delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq max = 65 kA
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA
<ul> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA
of the fuse	
<ul> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
- usable for Standard Faults up to 575/600 V	Type: Class RK5 / K5, max. 350 A; lq = 10 kA Type: Class J / L, max. 350 A; lq = 100 kA

<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 350 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	30 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	30 hp
• at 460/480 V at 50 °C rated value	75 hp
<ul> <li>at 575/600 V at 50 °C rated value</li> </ul>	100 hp
<ul> <li>at 200/208 V at inside-delta circuit at 50 °C rated value</li> </ul>	50 hp
<ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> </ul>	60 hp
<ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	125 hp
<ul> <li>at 575/600 V at inside-delta circuit at 50 °C rated value</li> </ul>	150 hp
contact rating of auxiliary contacts according to UL	R300-B300
Safety related data	
protection class IP on the front according to IEC	IP00; IP20 with cover
60529	
touch protection on the front according to IEC 60529	- finger-safe, for vertical contact from the front with cover
electromagnetic compatibility	in accordance with IEC 60947-4-2
Certificates/ approvals	
General Product Approval	EMC
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Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917

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